

Figure 1

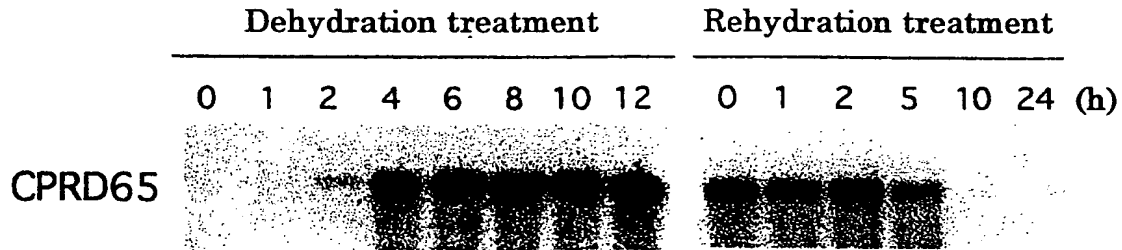
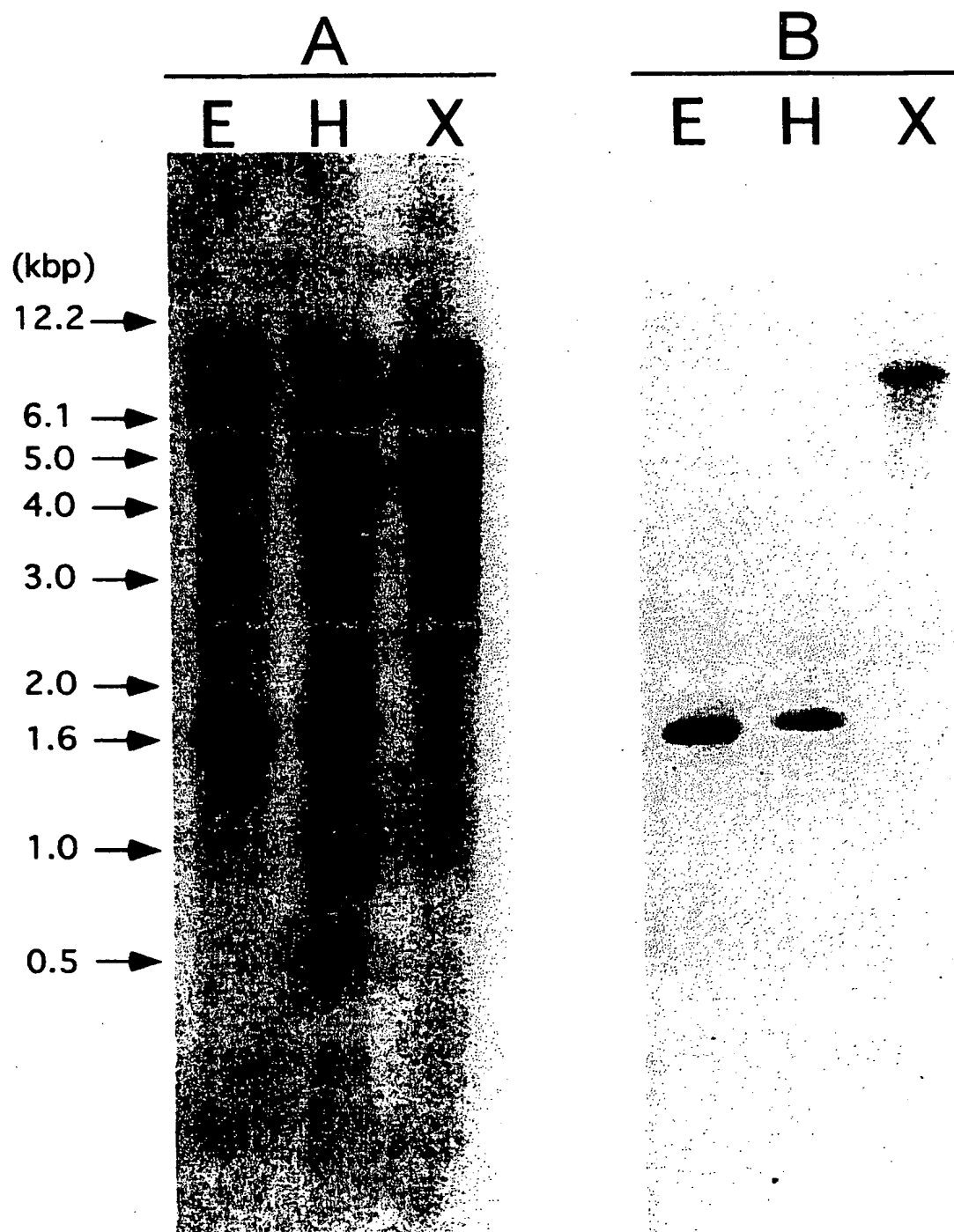


Figure 2

CPRD65	PSASNTWFMATLPSPPFKDLPSTSEPTNLLPLRKTSSNTITCSLPLHFPKQYQPTSTSTSTATTITPTPIKTTITTTTTPRETNP	90
VP14	QGLAPPTSVSIIHRHLPA-RSRARASNSVRFSR-RAVSSVPPAEC-LDA-PFHK----PVADLPAPSRKPAAI--AVPGHAAAPKAEG	79
LeNCED1	ATTTSF---ATNTWIKT-KLSMPSKEFGFAS-NSISLLKNQHN-RSLNINS---SLQAPPILHFPKQSSNYQTPKNNTISHPKQEN-	80
CPRD65	LSDTNQPLPQKNNFLQKAAATALDLVETALVSHRKSLPTADPPNQIENGFAPVPEHAADQGLPVAGIIPKCIDGVYRNGANPLYES	180
VP14	-GKKQLNLFQR-AAAAALDFEEGFANVL---ERPHLEPTADPPNQIENGFAPVCEPPVHELPEEGRIIPFFIDGVYRNGANPCFDP	164
LeNCED1	-NNSSSSTSKNNLVQKAAAMALDAVESALTKE-EP-LPTADPPNQIENGFAPVPEPNVCQSLPVIGRIIPKCVQGVYRNGANPLFEP	169
CPRD65	VAGHIFDGDGVHVAVKFTNGALSYACRFETETRLDEKSLGRPVFPKATGELHGHSGIARLLFYARGLFGLVDKSGGVANAGLVY	269
VP14	VAGHIFDGDGVHVALRIRNGAESYACRFETETRLDEKSLGRPVFPKATGELHGHSGIARLLFYARACGLVDPSNGGVANAGLVY	254
LeNCED1	TAGHIFDGDGVHVAQFKNGSLSYACRFETETRLDEKSLGRPVFPKATGELHGHSGIARLLFYARGLFGLVDKSGGVANAGLVY	258
CPRD65	FNHLLAMSEDDLPYHVRITPNDLITGRDFEQLNSTIAHPKLDPVGGLALSVDVIKPYLYKYPFSPOGKSDVEIPLKEPT	359
VP14	FNHLLAMSEDDLPYHVRVADDDLEITGRDFEQLGCAIHPKLDPATGELALSVDVIKPYLYKYPFSPOGKSDVEIPLKEPT	344
LeNCED1	FNHLLAMSEDDLPYHVKVTPTGDLKTEGRDFEQLKSTIAHPKLDPVSGELALSVDVIKPYLYKYPFSKNGKSDVEIPLVEDPT	348
CPRD65	KADFAITENFVYVPOQVVPKLTENITGSPVYDNGKSRFGDLKADANAMRDAPOCFCHLNMAWEPEETELVVGSCMTP	449
VP14	KADFAITENFVYVPOQVVPKLTENITGSPVYDNGKSRFGDLKADANAMRDAPOCFCHLNMAWEDEATTELAVVGSCMTP	434
LeNCED1	KADFAITENFVYVPOQVVPKLTENITGSPVYDNGKSRFGDLKADANAMRDAPOCFCHLNMAWEAETTELAVVGSCMTP	438
CPRD65	ADSIFNEEELKSVLEIRLNLRTGSTRPIISDAEQ-VLENGMVRNKLGRKTQFAYLAEPPWKSFGFAKVDLSGEVKKMYG	538
VP14	ADSIFNESDENLESVLEIRLDARTGRSTRVLPSSQ-ENLENGMVRNKLGRSRYAYLAEPPWKSFGFAKEDLTGELTKFEYG	523
LeNCED1	ADSIFNEEELKSVLEIRLNLRTGSTRKSIENPDEQVLENGMVRNKLGRKTEYAYLAEPPWKSFGFAKVDLTGEVEKFIYG	528
CPRD65	EEKFSGEPFLP-----NGQKEDDGYLNFVHDEKWKSELQVNAQNLKLEASIKPSRVPFGHGTFTISKDRKDA	612
VP14	EGRFSGEPFLPMDPAAAHPRGDDGYLNFVHDERAGTSELVNAADIRLEATVQLPSRVPFGHGTFTIGQLEADAA	604
LeNCED1	DNKYSGEPFLPDP-----NSKEDDGYLNFVHDEKWKSELQVNASLKEATVQLPSRVPFGHGTFTINANDLADA	605

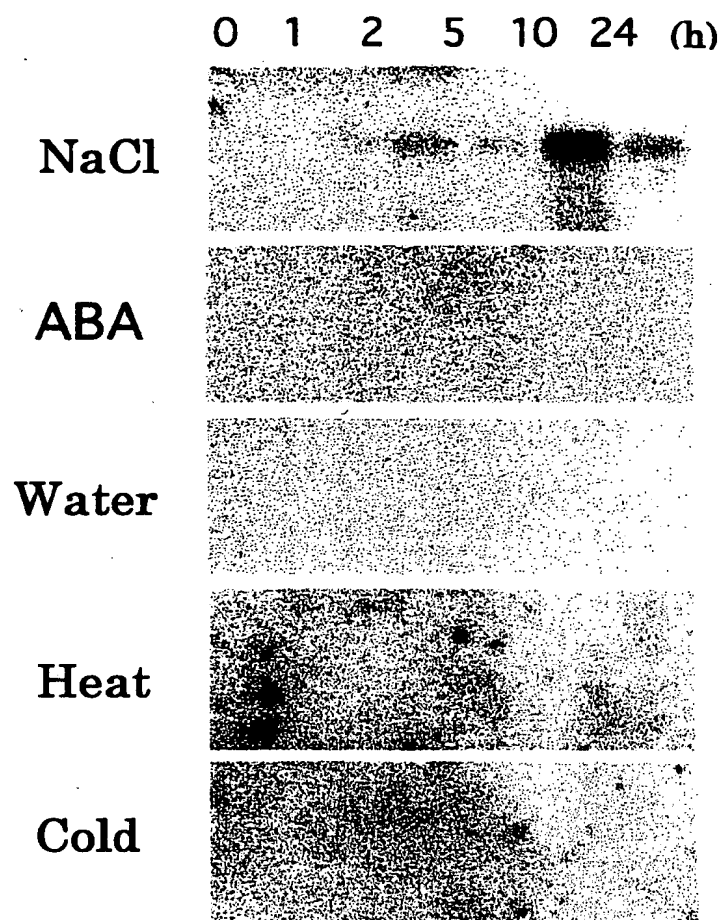
Figure 3



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Figure 4

(A)



(B)

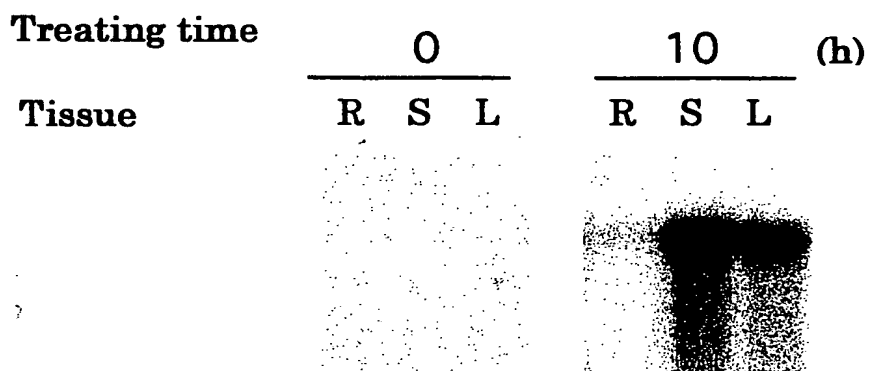
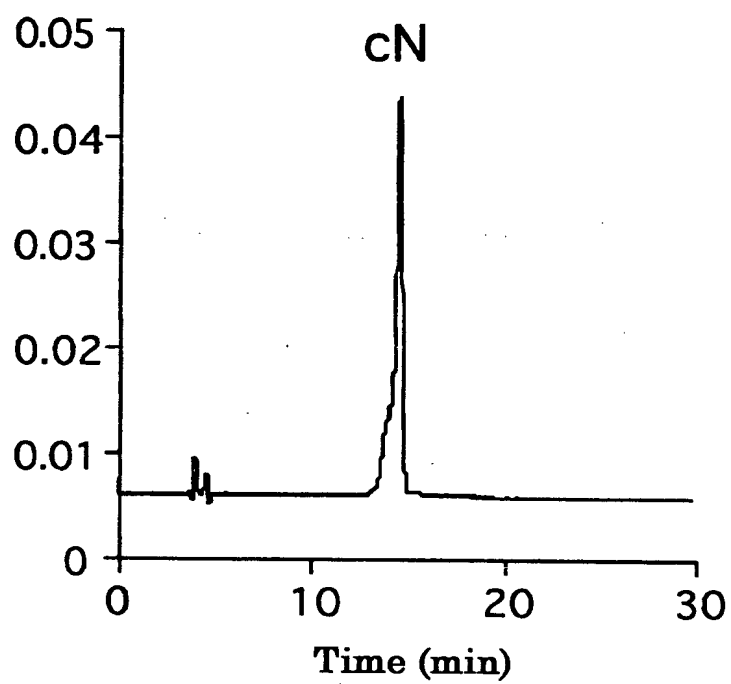


Figure 5

(A)



(B)

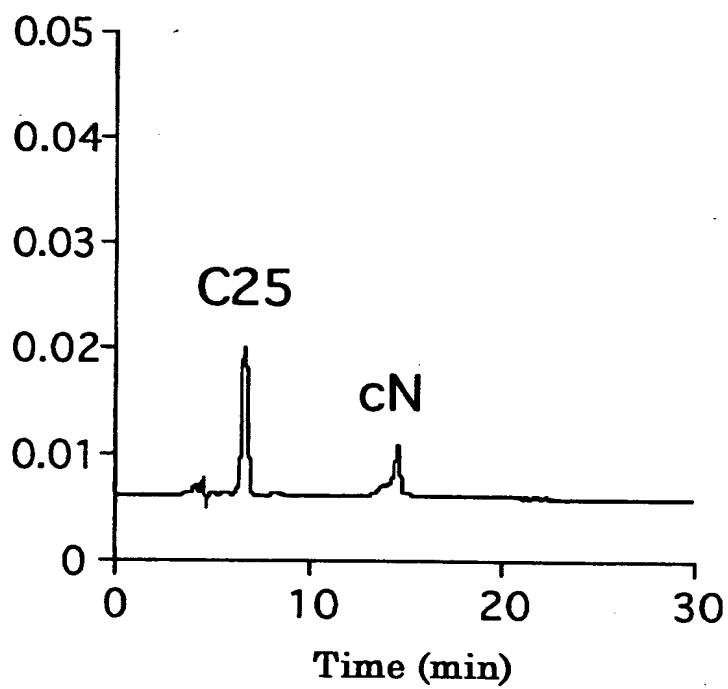


Figure 7

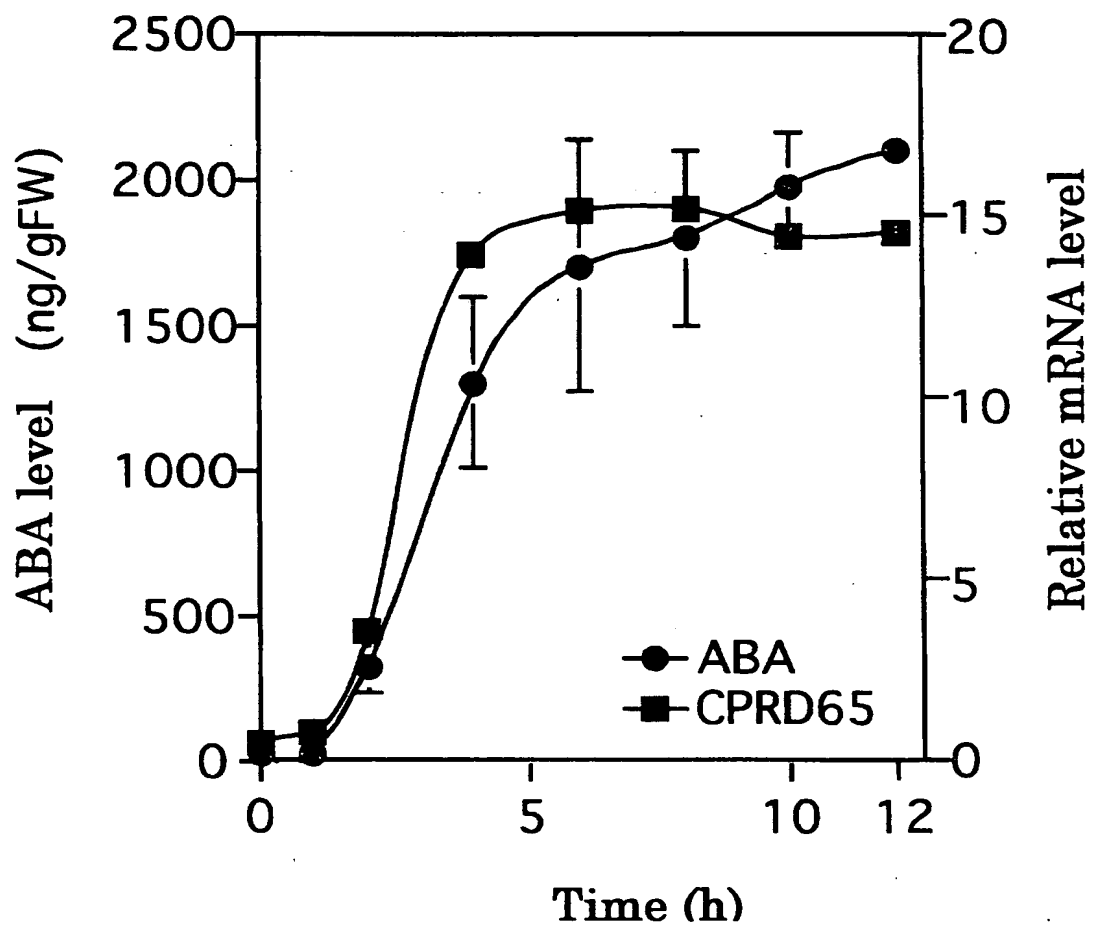


Figure 8

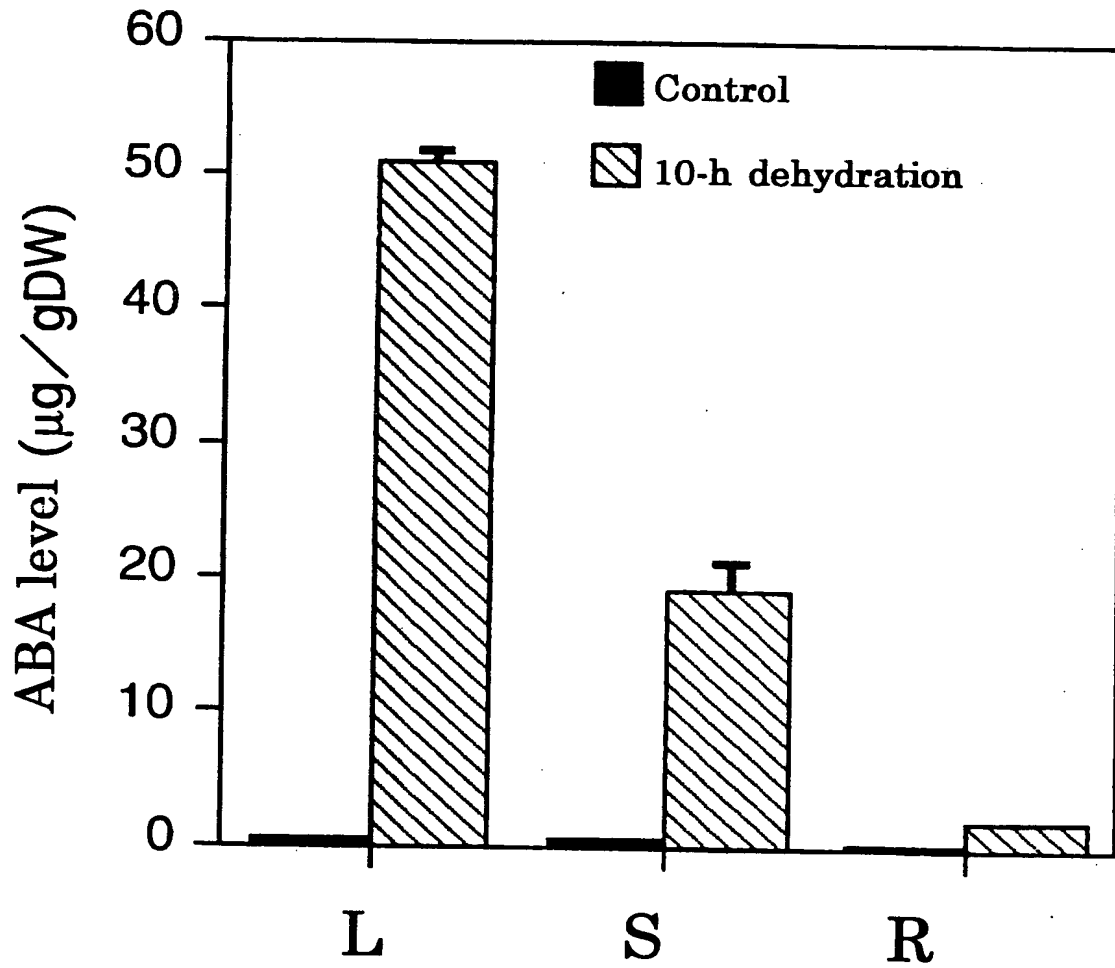


Figure 9

AtNCED3	MAS-----FIATAAVSG-RWLGGNHTQP---PLSSSSDLSYCS--SL--PMASRVTRKLNVSALHTPPALH	61
CPRD65	MPSSASNTWENATLPSPPFKDL PSTSSPTNLLPLRKTSSTNTITCSLQTLHFPKQYQFTSTSTATTITPTPIK	75
AtNCED3	FPKQSSNSPIIVKPI--KAKESNTKQNNLFOHAAAHALDAEGLVSHEKLNHPLPKTADPRVQIAGNFAPVNEQP	134
CPRD65	TTTTTTTTPPRETNP L SOTNQPLPQKWNFLQKAAALALD VETALVSHERKHPLPKTADPRVQIAGNFAPVNEHA	150
AtNCED3	VRRNLPVWGK PDSINGVYVRNGANPL EPVGHFFDGDGMVHAVKFEHGHASYACRFTITRFVQERQLGRPV	209
CPRD65	ADQGLPVWGKPKCIDGVYVRNGANPL EPVGHFFDGDGMVHAVKFTNGHASYACRFTETQRLSQEKS LGRPV	225
AtNCED3	FPKATGELHGHGIARLLFYARAAAGLVDPAHGVANAGLVYFGRLLAMSEDDLPHYVITPNGDLITVGRF	284
CPRD65	FPKATGELHGHGIARLLFYARGLFG LVDGSGGVANAGLVYFNNHLLAMSEDDLPHYVITPNGDLITVGRY	300
AtNCED3	DFDQGLSTMTAHPKMDPESGELALSVDVSKPYLKYFRFSPDGKSPDVEILDQPTMMDFAITENFVVVPD	359
CPRD65	DFDQGLSTMTAHPKMDPVQGLALSVDVSKPYLKYFRFSPDGKSPDVEILKEPTMMDFAITENFVVVPD	375
AtNCED3	QQVFKLHEMIGGSPVYDKNKVARFGILKYABSSNIKWIDAPDCFCFHLWNAWEEPETDEVVIGSCMTPP	434
CPRD65	QQVFKLHEMIGGSPVYDKNKTSRFGILKYANDANAMRWIDAPDCFCFHLWNAWEEPETDEVVIGSCMTPA	450
AtNCED3	DSIFNESDENLKSVLSEIRLNLGTGSTRRPIISNEQQVNLEAGVNRNMLGRKTFAYLALAEPWPVKVSGFAK	509
CPRD65	DSIFNESDENLKSVLSEIRLNLGTGSTRRPIISDAEQVNLEAGVNRNMLGRKTFAYLALAEPWPVKVSGFAK	524
AtNCED3	VDLTIGEVKKHLYGDNRYGGEPLFLPGEGGEDEGYILFVHDEKMKSELQIVNAVSLVEATVKLPSRVPYGF	584
CPRD65	VDLTIGEVKKHMYGEEKFGGEPLFLPNGQKEDDGYILFVHDEKMKSELQIVNAQLKLEATVKLPSRVPYGF	598
AtNCED3	HGTFIGADDLAKQVV	599
CPRD65	HGTFIHSKDLRKQA-	612

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Figure 10

AtNCED1	MSL-LTMMFSGGKTYPOAQIDLGFRPTKROPKVIKCTVQIDVTELTKGRQLFTRTTAT	60
AtNCED2	MSVSSSSFLSSTFSLHSLLRSSSPTLLRNSAVVEERSPTINPSNDNRNPKTLHRT	64
AtNCED3	MSFTATAAVSGRMLGNHTQPLSSQSSDLSYCSSLPASRVTRKLNSSALHTPPALHFPKSSNSPATVVK	75
AtNCED4	MA-----EKLSDGS-----IIISVHPPS-----	19
AtNCED5	MHSLSRSDLLPTKTSRSHLLPQKWNANISRRLLNPFKIPITLPDLTSVPVSPVKLPYFNLNLLQKLAATMLD	75
AtNCED1	P--POHNPLRLNIFOKAAATAIDAAERALTSHEQDSPLPKTADPRVOTAGNYSVPVPESSVRRNL--TVEGTFDCI	132
AtNCED2	NHTLVSSPPKLRPEMLTALFTTVEVDINTFIDPPSRP--SVDPKMLSDNFAPVLDLPPTDCETIHGILPSL	138
AtNCED3	PKAKESNTKQMLFQRAAAALDAAEGFLYSHEKLHELPKTADPSVOTAGNFAPVNEQVRRNL--PWGKLPPDSI	149
AtNCED4	-----KGF-----SSKLLDLLERLVKLMHDSLPLHY-----LSGNFAPIRDETTPVKDLVHGFUEPCL	75
AtNCED5	KTESIVIPMEQNRPLPKPTPAVQLSGNFAPVNEQVQNG-----LEWGLDIESCL	127
AtNCED1	KGYYIRGNMFFPTAGHFDGQGMHVKIT--NGSASYACRFITRVLVQERLGRPVFPKAIIGELHGS--G	205
AtNCED2	NGYYIRGNMFDLPRGPYHFDGQGMHVKIT--NGKATLCSRVKITYKYNKOTIGPAMPWFSGFNGTAS	212
AtNCED3	KGYYIRGNMDEHPTVGHFDGQGMHVKFE--HGSASYACRFITRVLVQERLGRPVFPKAIIGELHGT--G	222
AtNCED4	NGEYIRGNMFKFDVAGYHFDGQGMHVKIRK--DGKATYSRVKITSRLKQEEFPGAQFMK--IGDLKGF--G	147
AtNCED5	KGYYIRGNMFFPLAGHFDGQGMHVSIGFQNVSYSGRTKIRVLVQETALGRSVFPKPIGELHGS--G	201
AtNCED1	IARLMFYARGLCGLTNONGAGANAGVYFNRLIAISEDLPYDKCTOTGLQTVGRYDFDGLKXSAMIAH	280
AtNCED2	VARGALTAARVLTQYNPVNGIGANESAFFSNLFALCEEDLPYVRLTESGLETHGRYDFDGLKXAMTIAH	287
AtNCED3	IARLMFYARAAAGVDPAGGIGANAGVYFNRLIAISEDLPYDKCTOTGLQTVGRYDFDGLKXAMTIAH	297
AtNCED4	LLMNTGQRLTKLKLNTYNGGANTALVYHGLALCEDEFPYDKVLEGLQTVGRYDFDGLKXAMTIAH	222
AtNCED5	LARLAEFTARAGIGLVDTGAGANAGVYFNRLIAISEDLPYDKCTOTGLQTVGRYDFDGLKXAMTIAH	276
AtNCED1	PKIDVTIKELHALSYVWKKPMLKYFRSPDGKSPLETLPLETITMIDFAITENFWWIPDQWFKLGEM--	352
AtNCED2	PKIDVTIGETFAFRYPV--PPFLTYFRDSAGKQORDVPLFSMTSPFLHDFAITGRHAFETOLGRRMMLDL	361
AtNCED3	PKIDPESGELFALSYDVSKMLKYFRSPDGKSPVET--QLDQITMIDFAITENFWWIPDQWFKLGEM--	369
AtNCED4	PKIDVTIGETFAFRYPV--PPFLTYFRDSAGKQORDVPLFSMTSPFLHDFAITGRHAFETOLGRRMMLDL	293
AtNCED5	PKIDATTGDLHTLSYVWKKPMLKYFRSPDGKSPLETLPLETITMIDFAITENFWWIPDQWFKLGEM--	348
AtNCED1	ISGKSPV--VFDEGKVSRLGEMPKDATEASQITWNSPETTFCHLWNAWESPETEE---IV---VIGSOMSPADSI	420
AtNCED2	VLEGGSPVGTONGKTRIGLIPKYAGDESEWFEVPGFNITHATWDEDDGNS---W---LIAPNIMSTHT	430
AtNCED3	IRGGSPV--VYDKKVARFGLDKYAEDESSNDMDAPDCFCFLWNAWESPETDE---W---VIGSOMTPDST	437
AtNCED4	VKEKMIYSFDPITKARGLPRYAKDELMDPFLPNCFTFNWNAWEEDE---WLITCRLENPOLDWMSGK	365
AtNCED5	IRGGSPV--IYKELVARFGLSKDLTGSDINWMDPDCFCFLWNAWEEETEEGDPVIV---VIGSOMSPDST	419
AtNCED1	FNEDESLSRVLSSEIRNLTRKTRPSLLV--NEDVILETGW--NRNLRGRKTRFAFLATAYPWKVSQFAKVD	492
AtNCED2	L--EMDLVHALVEKVIDLVTVRRPTSA-----RNLDFAVI--NPAFLGRCSRYVYALGDPFVKLSGVAKLD	498
AtNCED3	FNEDENLKSVLSSEIRNLNLTGSTRPTISNEDCOVNLKAGW--NRNLRGRKTRFAFLATAYPWKVSQFAKVD	511
AtNCED4	VKELENFQNELYEMRNMKTSASQKLSASAVDFPRINECYTGKORYVYGITLDSIAKVTGLKFDLHAEAE	440
AtNCED5	FSEGEPTRVELSEIRNLNLTKESNRKIVT----GVNLEAGHI--NRSYVGRKSQVYIALADPWKVSQFAKVD	489
AtNCED1	LCTGEMKKYIYGGEKYG--EPFFLPGN--SGNGEENEDGYIFCHVDEETKISELOTINAVNLKLE--ATIK	560
AtNCED2	VSKGRODCTVARRMYSGCYGGEFFVARDPGNPEAEEDGYVTVHDEVTGSKFLMDAKSPELETVAVR	573
AtNCED3	LTTGEVKHLYGQNRYG--EPLFLPGE--GGEDE-----GYLCPVHDEKTKISELOTINAVNLKLE--ATIK	575
AtNCED4	TGKRLVGGNLIKGYLUG--EGRYGEALVYPREAEEDGYIFCHVDEETKISELOTINAVNLKLE--ATIK	513
AtNCED5	IQNGTVSEFNYPSPRFG--EPCVPEG--EGEEDK-----GYMGRVHDEKTKISELOTINAVNLKLE--ATIK	553
AtNCED1	LPFRVPYGFHTIFVDSNELVDQ--	583
AtNCED2	LPFRVPYGFHTIFVDSNELVDQ--	595
AtNCED3	LPFRVPYGFHTIFVDSNELVDQ--	599
AtNCED4	LPFRVPYGFHTIFVDSNELVDQ--	538
AtNCED5	LPFRVPYGFHTIFVDSNELVDQ--	577

Figure 11

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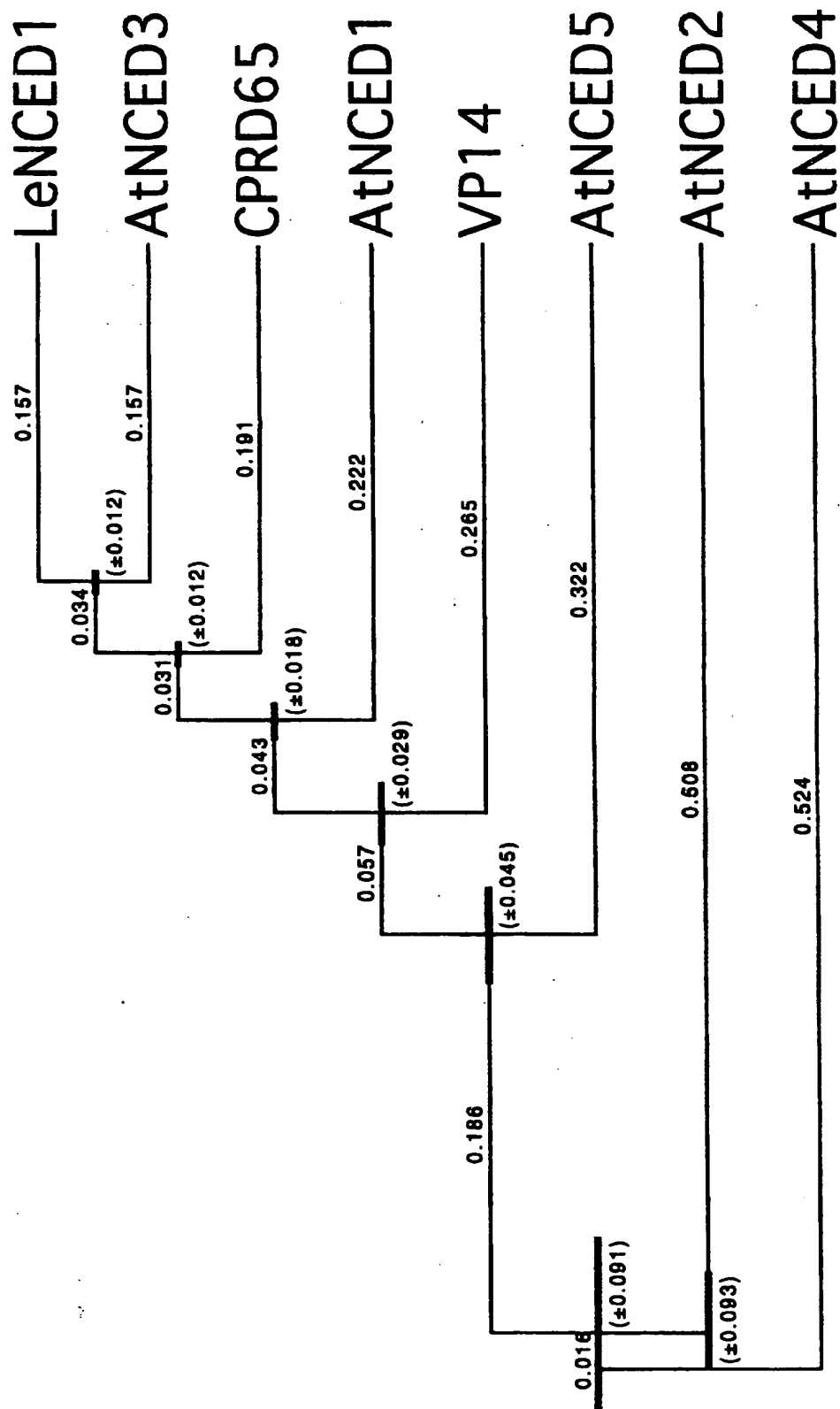


Figure 12

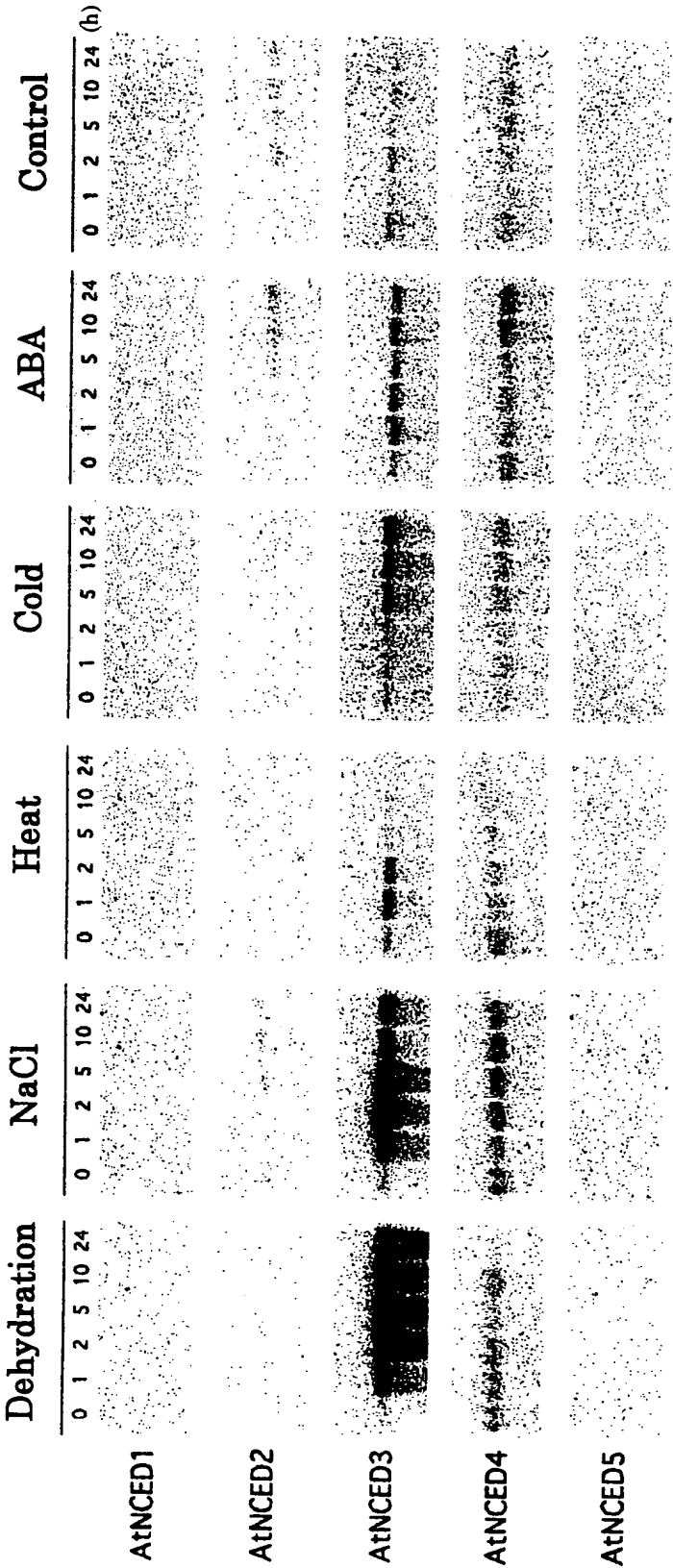


Figure 13

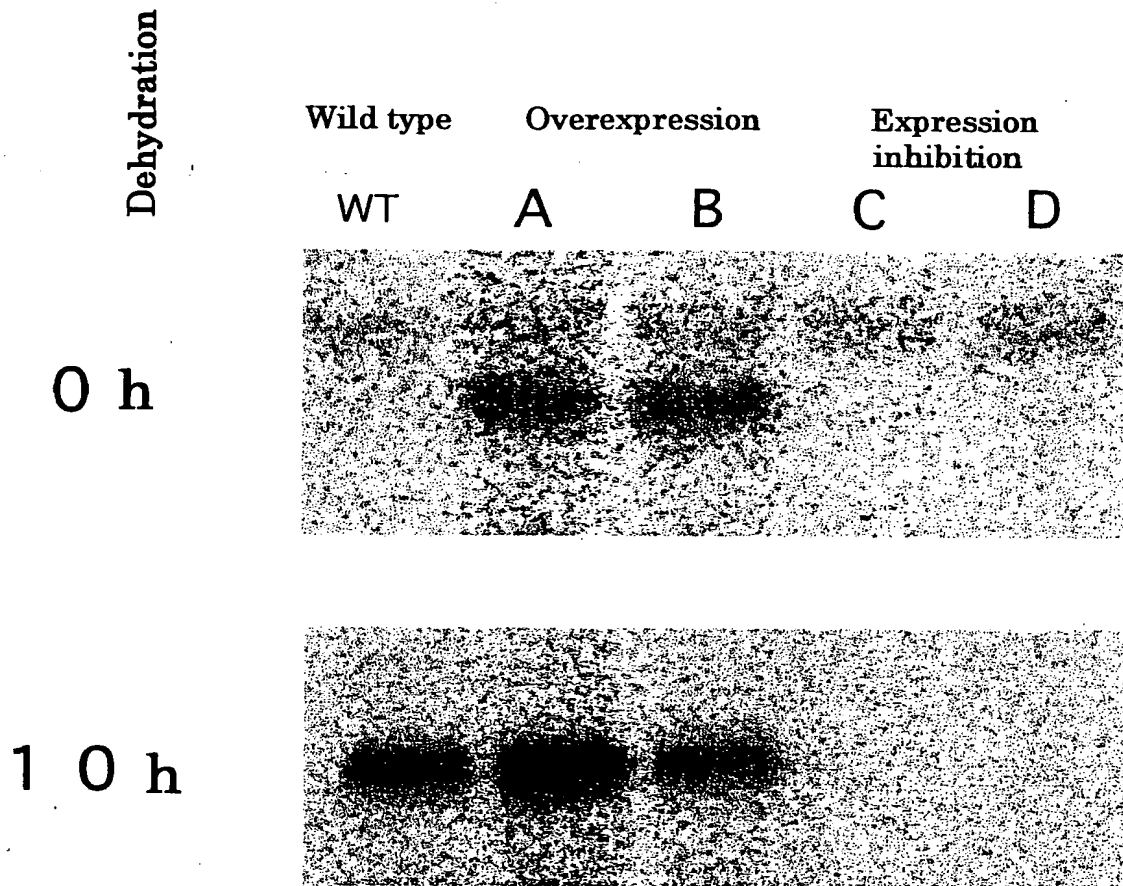


Figure 14

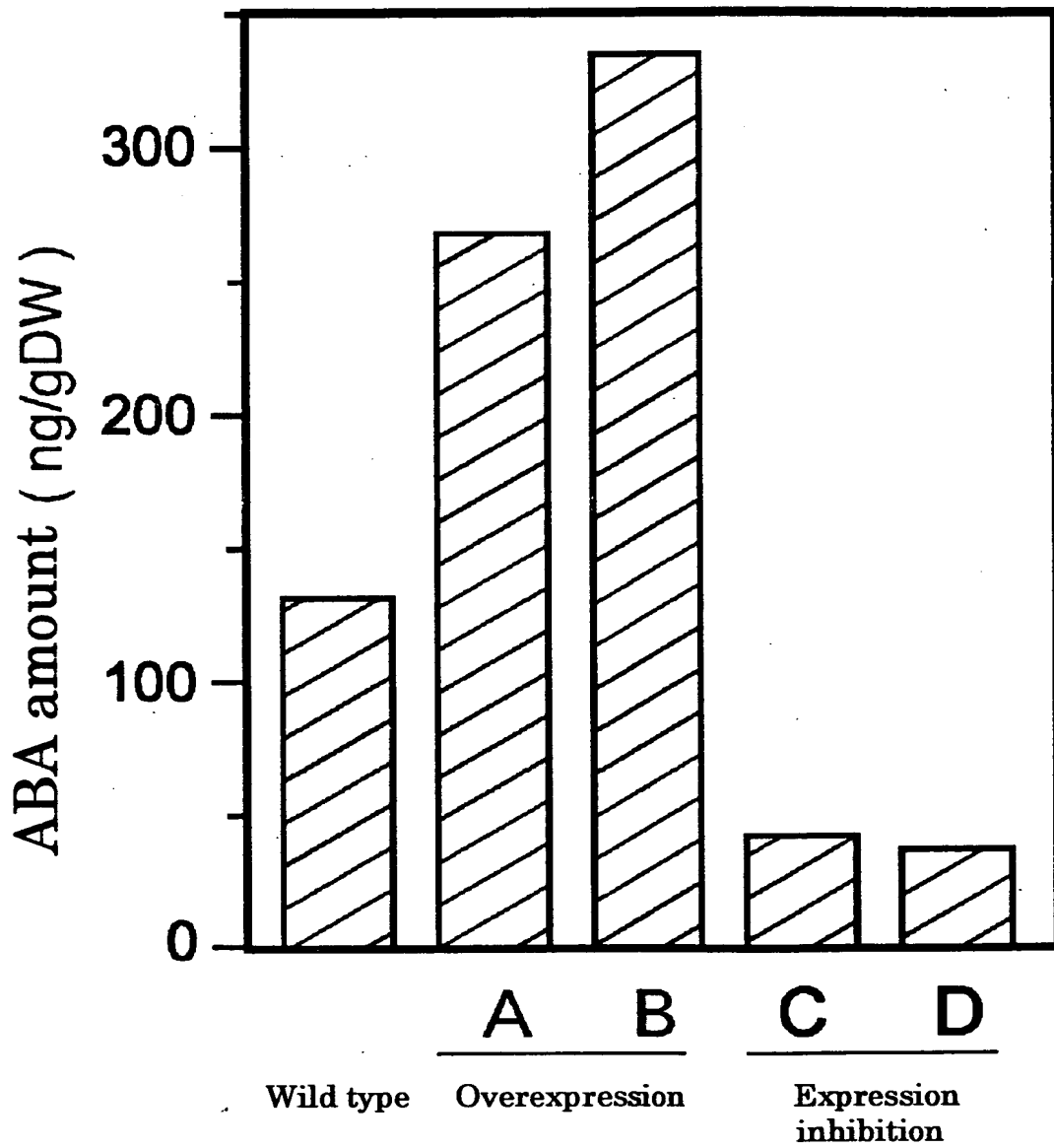
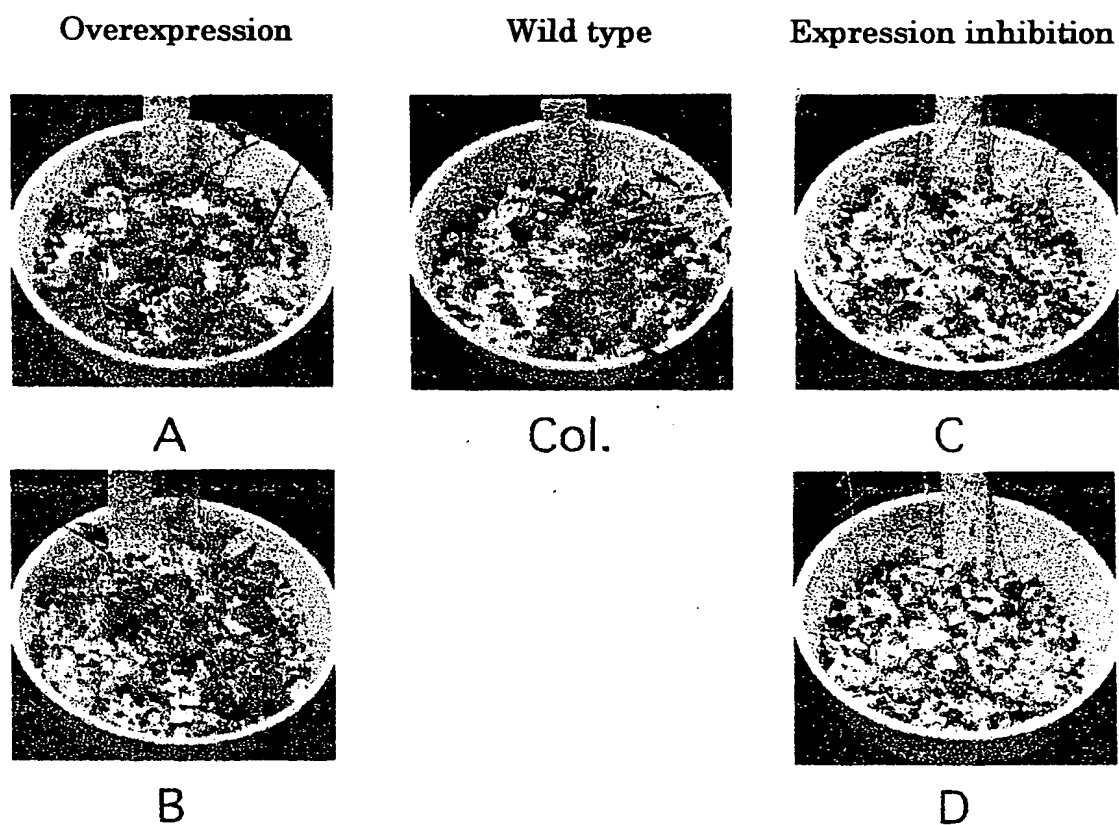


Figure 15



Water content of plants
14 days after tolerance evaluation

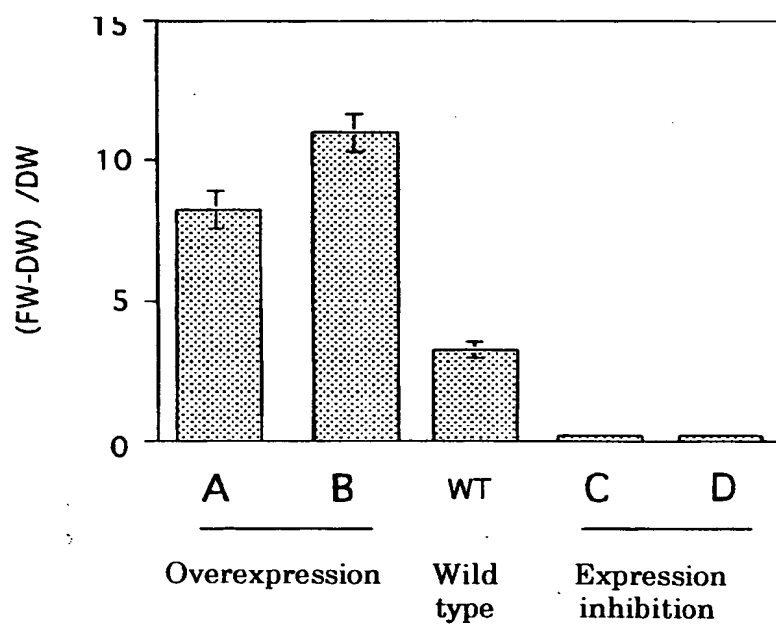
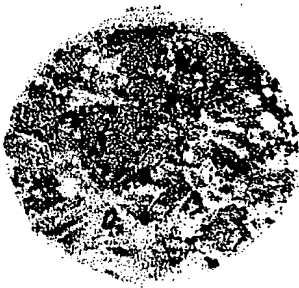


Figure 16

Overexpression

Wild type

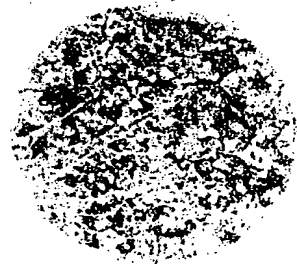
Expression
inhibition



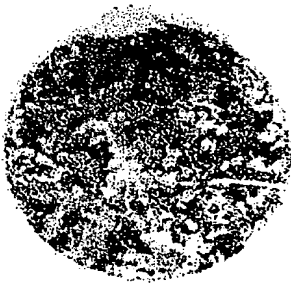
A



Col.



C



B



D

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